SEQUENCE LISTING

<110> Fox, Brian Holloway, James L.	
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cct ggt gca cca ggt tta cca caa tat aca gga gaa ata agt gaa atg Pro Gly Ala Pro Gly Leu Pro Gln Tyr Thr Gly Glu Ile Ser Glu Met 35 40 45	145
aca aaa tgc ccc tgt cct gat ata gaa agg tca gcc ttt act gtg aag Thr Lys Cys Pro Cys Pro Asp Ile Glu Arg Ser Ala Phe Thr Val Lys 50 55 60	193

														aca Thr		241
-	_			-										gtc Val 95		289
														gag Glu		337
														ttg Leu		385
	-	_	-			_	-		-					act Thr		433
	_		_	-		_				-	-	-		aag Lys	_	481
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-	_		_				-			-				tgg Trp		625
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agg	aga	aaa	tgg	ttt	tgt	ggg	aca	ggc	сса	ggg	tcc	ctg	tgc	tgt	gtg	721

Arg 225	Arg	Lys	Trp	Phe	Cys 230	Gly	Thr	Gly	Pro	Gly 235	Ser	Leu	Cys	Cys	Val 240	
_		-	_	_			-	•		-			-	gtg Val 255	-	769
			-	_		_			_			_		gtt Val		817
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		-	_										_	aag Lys		913
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_			_							_	_		_	999 Gly 335	_	1009
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												_		tcc Ser		1105
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ttg cat tg Leu His Cy														1249
ttt gga gc Phe Gly Al		_		_	_									1297
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gta ttt ac Val Phe Th 450		-	-				_	_	tag *					1381
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Ile Val Val Val Val Ala Gl Pro Gly Al 35 Thr Lys Cy	l Ile y Pro 20 a Pro	5 Pro Gly	Ala Leu	His Pro Asp	Pro Gln 40	Arg 25 Tyr	10 Pro Thr	Pro Gly	Glu Glu Ala	Glu Ile 45	Val 30 Ser	15 Gly Glu	Pro Met	
Ile Val Val Val Ala Gl Pro Gly Ala Gl Thr Lys Cy 50 Leu Ser Gl	y Pro 20 a Pro s Pro	5 Pro Gly Cys	Ala Leu Pro	His Pro Asp 55	Pro Gln 40 Ile	Arg 25 Tyr Glu	10 Pro Thr Arg	Pro Gly Ser Pro	Glu Glu Ala 60	Glu Ile 45 Phe	Val 30 Ser Thr	15 Gly Glu Val	Pro Met Lys Gly	
Ile Val Val Val Val Ala Gl Pro Gly Ala 35 Thr Lys Cy 50	y Pro 20 a Pro s Pro y Lys	5 Pro Gly Cys Leu	Ala Leu Pro Pro 70	His Pro Asp 55 Leu	Pro Gln 40 Ile Pro	Arg 25 Tyr Glu Phe	10 Pro Thr Arg Lys	Pro Gly Ser Pro 75	Glu Glu Ala 60 Ile	Glu Ile 45 Phe Ile	Val 30 Ser Thr	15 Gly Glu Val	Pro Met Lys Gly 80	
Ile Val Val Val Val Ala Gl Pro Gly Al 35 Thr Lys Cy 50 Leu Ser Gl 65 Val Leu Ty	l Ile y Pro 20 a Pro s Pro y Lys r Asn	5 Pro Gly Cys Leu Ala 85	Ala Leu Pro Pro 70 Gln	His Pro Asp 55 Leu Arg	Pro Gln 40 Ile Pro Asp	Arg 25 Tyr Glu Phe Leu	10 Pro Thr Arg Lys Lys 90	Pro Gly Ser Pro 75 Glu	Glu Glu Ala 60 Ile Ala	Glu Ile 45 Phe Ile Met	Val 30 Ser Thr Phe Gly	15 Gly Glu Val Thr Val 95	Pro Met Lys Gly 80 Phe	
Ile Val Val Val Ala Glore Val Leu Ty Ala Cys Ar	y Pro 20 a Pro s Pro y Lys r Asn g Val 100	5 Pro Gly Cys Leu Ala 85 Pro	Ala Leu Pro Pro 70 Gln	His Pro Asp 55 Leu Arg Asn	Pro Gln 40 Ile Pro Asp	Arg 25 Tyr Glu Phe Leu Tyr 105	10 Pro Thr Arg Lys Lys 90 Ser	Pro Gly Ser Pro 75 Glu Ser	Glu Glu Ala 60 Ile Ala Phe	Glu Ile 45 Phe Ile Met Asp	Val 30 Ser Thr Phe Gly Val 110	15 Gly Glu Val Thr Val 95 Glu	Pro Met Lys Gly 80 Phe Leu	
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Ile Val Val 1 Val Ala Gl Pro Gly Al 35 Thr Lys Cy 50 Leu Ser Gl 65 Val Leu Ty Ala Cys Ar His His Cy	y Pro 20 a Pro s Pro y Lys r Asn g Val 100 s Lys	5 Pro Gly Cys Leu Ala 85 Pro Val	Ala Leu Pro Pro 70 Gln Gly Asn	His Pro Asp 55 Leu Arg Asn Ile	Pro Gln 40 Ile Pro Asp Tyr Trp 120	Arg 25 Tyr Glu Phe Leu Tyr 105 Leu	10 Pro Thr Arg Lys 90 Ser Met	Pro Gly Ser Pro 75 Glu Ser Arg	Glu Glu Ala 60 Ile Ala Phe Lys	Glu Ile 45 Phe Ile Met Asp Gln 125	Val 30 Ser Thr Phe Gly Val 110 Ile	15 Gly Glu Val Thr Val 95 Glu Leu	Pro Met Lys Gly 80 Phe Leu Ala	

Ser Glu Asn Leu His Pro Asp Asn Val Ile Lys Lys Lys Asn Pro Phe Ser Glu Gly Lys Phe Lys Leu Ala Ala Glu Ile Cys Ile Cys Asn Glu Glu Leu Asn Val Asn Pro Gln Asp Asn Gly Glu Asn Ile Ser Trp Thr Cys Gln Arg Ser Ser Gln Gln Ser Ile Lys Ser Leu Ala Trp Arg Pro Arg Arg Lys Trp Phe Cys Gly Thr Gly Pro Gly Ser Leu Cys Cys Val Gin Pro Arg Asp Leu Val Pro Cys Val Pro Val Asn Ser Ala Val Ala Ser Glu Gly Ala Ser Pro Lys Pro Trp Gln Leu Pro Ser Gly Val Glu Pro Val Gly Ala Lys Lys Ser Arg Ile Glu Val Trp Glu Pro Pro Ile Arg Phe Gln Lys Ile Tyr Gly Asn Pro Trp Met Pro Arg Gln Lys Phe Ala Val Gly Val Gly Ser Ser Trp Arg Thr Ser Ala Arg Val Val Gln Lys Gly Asn Val Gly Trp Glu Pro Pro His Arg Val Pro Ser Gly Ala Pro Ser Ser Arg Ala Val Arg Arg Ser Pro Pro Ser Ser Arg Leu Gln Lys Gly Arg Ser Thr Asp Ser Leu Gln His Val Pro Glu Lys Ser Thr Asp Thr Gln Cys Gln Pro Val Lys Ala Ala Gly Met Glu Ser Val Pro Tyr Lys Thr Val Val Ala Glu Leu Thr Lys Thr Val Gly Ile Tyr Leu Leu His Cys His Asp Leu Asp Val Arg His Gly Val Lys Arg Asp His Phe Gly Ala Leu Arg Phe Asp Cys Pro Thr Gly Phe Arg Thr Tyr Met Gly Pro Val Pro Leu Cys Phe Gly Gln Phe Phe Pro Phe Gly Thr Ala Val Phe Thr Gln Cys Leu Tyr Leu His Cys Met

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<211> 1377

<212> DNA

<213> Artificial Sequence

<211> 31 <212> PRT

<213> Artificial Sequence

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      <222> (1)...(1377)
      <223> Each n is independently A, T, G, or C.
      <221> misc feature
      <222> (1)...(1377)
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congeneave enmancence ngargargth gancencong angeneengg nythechear
tayacnggng arathwsnga ratgacnaar tgyccntgyc engayathga rmgnwsngen
                                                                       180
                                                                       240
ttyacngtna arytnwsngg naarytnoch ythochttya arcchathat httyacnggn
                                                                       300
gtnytntaya aygcncarmg ngayytnaar gargcnatgg gngtnttygc ntgymgngtn
conggnaayt aytaywsnws nttygaygtn garytnoayc aytgyaargt naayathtgg
                                                                       360
ytnatgmgna arcarathyt ngcnaayaar gargarathw snaarcarca rwsnathcar
                                                                       420
gargtnacht gggtnytnyt naargentty wsnttyathm gngargenga reayaarwsn
                                                                       480
wsngaraayy tncayccnga yaaygtnath aaraaraara ayccnttyws ngarggnaar
                                                                       540
ttyaarytng engengarat htgyathtgy aaygargary tnaaygtnaa yeencargay
                                                                       600
aayggngara ayathwsntg gacntgycar mgnwsnwsnc arcarwsnat haarwsnytn
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gentggmgne enmgnmgnaa rtggttytgy ggnaenggne enggnwsnyt ntgytgygtn
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carconmgng ayytngthcc ntgygthcch gthaaywsng chgthgchws ngarggngch
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wsnccnaarc entggearyt neenwsnggn gtngareeng tnggngenaa raarwsnmgn
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mgncaraart tygengtngg ngtnggnwsn wsntggmgna enwsngenmg ngtngtnear
                                                                       960
aarqqnaayq tnqqntqqqa rccnccncay mqnqtnccnw snqqnqcncc nwsnwsnmqn
                                                                      1020
                                                                      1080
gengtnmgnm gnwsneenee nwsnwsnmgn ytnearaarg gnmgnwsnae ngaywsnyth
carcaygine engaraarws naengayaen cartigyeare enginaarge ngenggnatg
                                                                      1140
garwsngthc chtayaarac ngtngthgch garythacha arachgthgg nathtayyth
                                                                      1200
                                                                      1260
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mgnttygayt gyccnacngg nttymgnacn tayatgggnc cngtnccnyt ntgyttyggn
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     <222> (12)...(12)
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     <222> (13)...(18)
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gtt ggt agc tgg aga gaa ctg gga aag cct tca ggc atc tgg gaa Val Gly Ser Trp Arg Glu Leu Gly Lys Pro Ser Gly Ile Trp Glu 35 40 45	
gct ggg gat aca gag gtg aag aca ggg ttt ctt cag gaa ctc Ala Gly Asp Thr Glu Val Lys Lys Thr Gly Phe Leu Gln Glu Leu 50 55 60	
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tgc cat gtg aca cca cct gct cca cct gca tct tct gcc ata att Cys His Val Thr Pro Pro Ala Pro Pro Ala Ser Ser Ala Ile Ile 85 90 95	
aga ttc ctg agg ccc tca cca gaa gca gat gcc agc agc atg ctt Arg Phe Leu Arg Pro Ser Pro Glu Ala Asp Ala Ser Ser Met Leu 100 105 110	
gca cag tct gta gaa ccg ata gtg gtc ata cct gtc tta ata acg Ala Gln Ser Val Glu Pro Ile Val Val Ile Pro Val Leu Ile Thr 115 120 125	
gtc att gag cat gta gaa gtt gct gga cct cca gca cac ccc agg	ccc 432

Val	Ile 130	Glu	His	Val	Glu	Val 135	Ala	Gly	Pro	Pro	Ala 140	His	Pro	Arg	Pro	
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	-				atg Met											528
	_				aag Lys											576
			Phe		ggg Gly											624
					ttt Phe											672
	Phe				ctg Leu 230						Asn					720
					gct Ala											768
					tgg Trp				Lys					Ile		816
	-		His					Asn					Asn		ata Ile	864
	_	Lys					Glu					Leu			gaa Glu	912

att Ile 305	tgc Cys	ata Ile	tgt Cys	aat Asn	gag Glu 310	gag Glu	ctg Leu	aat Asn	gtt Val	aat Asn 315	cct Pro	caa G1n	gac Asp	aat Asn	999 Gly 320	960
gaa Glu	aat Asn	atc Ile	tcc Ser	tgg Trp 325	aca Thr	tgt Cys	cag Gln	agg Arg	tct Ser 330	tca Ser	cag Gln	cag G1n	tcc Ser	atc Ile 335	aaa Lys	1008
			tgg Trp 340													1056
ggg Gly	tcc Ser	ctg Leu 355	tgc Cys	tgt Cys	gtg Val	cag Gln	cct Pro 360	aga Arg	gac Asp	ttg Leu	gtg Val	ccc Pro 365	tgt Cys	gtc Val	cca Pro	1104
			gct Ala													1152
			ggt Gly								Lys					1200
			cct Pro		Ile					Ile					Trp	1248
			cag Gln 420						Val							1296
			gta Val					Asn					Pro			1344
		Pro					Ser					Arg			cca Pro	1392
сса	tcc	tcc	: aga	cto	: cag	aag	ggt	: aga	tcc	: act	: gac	agc	ttg	cag	cat	1440

Pro Ser 465	Ser Arg	Leu Gln 470	Lys Gly	Arg	Ser	Thr 475	Asp	Ser	Leu	G1n	His 480	
gtg cct Val Pro	gaa aaa Glu Lys	tcc aca Ser Thr 485	gac act Asp Thr	cag Gln	tgc Cys 490	cag Gln	cct Pro	gtg Val	aaa Lys	gca Ala 495	gca Ala	1488
ggg atg Gly Met	gag tct Glu Ser 500	gta ccc Val Pro	tac aaa Tyr Lys	acc Thr 505	gta Val	gtg Val	gca Ala	gag Glu	ctg Leu 510	acc Thr	aag Lys	1536
acc gtg Thr Val	gga atc Gly Ile 515	tac ctc Tyr Lei	ttg ca Leu Hi: 52	s Cys	cat His	gac Asp	ctg Leu	gac Asp 525	gtg Val	aga Arg	cat His	1584
gga gtc Gly Val 530	aaa aga Lys Arg	gat cat Asp His	t ttt gg s Phe Gl 535	a gct y Ala	tta Leu	aga Arg	ttt Phe 540	gac Asp	tgc Cys	ccc Pro	act Thr	1632
gga ttt Gly Phe 545	cgg act Arg Thr	tat atg Tyr Me ⁻ 550	t Gly Pr	c gta o Val	ccc Pro	ctt Leu 555	Cys	ttt Phe	ggc Gly	caa Gln	ttt Phe 560	1680
ttt cca Phe Pro	ttt gga Phe Gly	a act gco Thr Ala 565	c gta tt a Val Ph	t acc e Thr	caa Glr 570	Cys	ctg Leu	tac Tyr	ctc Leu	cat His 575	Cys	1728
atg Met												1731

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<211> 577

<212> PRT

<213> Homo sapiens

<400> 6

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Ala	Gly 50	Asp	Thr	G1u	Val	Lys 55	Lys	Thr	Gly	Phe	Leu 60	G1n	Glu	Leu	Thr
Phe 65	Gln	Gln	Glu	Pro	Gly 70	Ile	Ser	Ser	Ser	Pro 75	Ser	Cys	Ser	Arg	Ser 80
Cys	His	Val	Thr	Pro 85	Pro	Ala	Pro	Pro	Ala 90	Ser	Ser	Ala	Ile	Ile 95	Val
Arg	Phe	Leu	Arg 100	Pro	Ser	Pro	G1u	Ala 105	Asp		Ser	Ser	Met 110	Leu	Ile
Ala	Gln	Ser 115	Val	Glu	Pro	Ile	Val 120	Val	Ile	Pro	Val	Leu 125	Ile	Thr	Ala
Val	Ile 130	Glu	His	Val	Glu	Val 135	Ala	Gly	Pro	Pro	Ala 140	His	Pro	Arg	Pro
Pro 145	Glu	Glu	Val	Gly	Pro 150	Pro	Gly	Ala	Pro	Gly 155	Leu	Pro	Gln	Tyr	Thr 160
Gly	Glu	Ile	Ser	G1u 165	Met	Thr	Lys	Cys	Pro 170	Cys	Pro	Asp	Ile	Glu 175	Arg
Ser	Ala	Phe	Thr 180	Val	Lys	Leu	Ser	Gly 185	Lys	Leu	Pro	Leu	Pro 190	Phe	Lys
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	210		_			215	-				220		Tyr	-	
225					230					235			Trp		240
				245					250				Gln	255	
			260					265					Phe 270		
		275					280					285	Asn		
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Leu Pro Ser Gly Val Glu Pro Val Gly Ala Lys Lys Ser Arg Ile Glu
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                    390
Val Trp Glu Pro Pro Ile Arg Phe Gln Lys Ile Tyr Gly Asn Pro Trp
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                                    410
                405
Met Pro Arg Gln Lys Phe Ala Val Gly Val Gly Ser Ser Trp Arg Thr
                                425
            420
Ser Ala Arg Val Val Gln Lys Gly Asn Val Gly Trp Glu Pro Pro His
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                            440
        435
Arg Val Pro Ser Gly Ala Pro Ser Ser Arg Ala Val Arg Arg Ser Pro
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    450
Pro Ser Ser Arg Leu Gln Lys Gly Arg Ser Thr Asp Ser Leu Gln His
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                    470
Val Pro Glu Lys Ser Thr Asp Thr Gln Cys Gln Pro Val Lys Ala Ala
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                                     490
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Gly Met Glu Ser Val Pro Tyr Lys Thr Val Val Ala Glu Leu Thr Lys
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                                                     510
             500
Thr Val Gly Ile Tyr Leu Leu His Cys His Asp Leu Asp Val Arg His
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                             520
Gly Val Lys Arg Asp His Phe Gly Ala Leu Arg Phe Asp Cys Pro Thr
                                             540
                         535
     530
Gly Phe Arg Thr Tyr Met Gly Pro Val Pro Leu Cys Phe Gly Gln Phe
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<211> 1731

<212> DNA

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 of SEQ ID NO:6

<221> misc feature

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<223> n = A,T,C or G

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cargarytna	cnttycarca	rgarccnggn	athwsnwsnw	snccnwsntg	ywsnmgnwsn	240
tgycaygtna	cnccnccngc	nccnccngcn	wsnwsngcna	thathgtnmg	nttyytnmgn	300
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